

1 **LOUISIANA COASTAL PROTECTION AND RESTORATION**
2 **TECHNICAL REPORT**

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10 **EVALUATION RESULTS APPENDIX**

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14 **U. S. Army Corps of Engineers**
15 **New Orleans District**
16 **Mississippi Valley Division**

17

18 **Introduction**

19 As described in Section 6 of the main report, each LACPR alternative is evaluated on the
20 basis of informed metrics and risk reduction performance. This appendix presents a
21 detailed and uniform presentation of evaluation results for all LACPR alternatives in the
22 form of maps and tables by planning unit.

23
24 In order to identify areas impacted by hurricane inundation for the base and future
25 conditions, water surface elevation and/or water depth maps are included for the
26 following conditions:

- 27 • 2010 without project hydrology (existing conditions).
28 • 2060 without project hydrology (future degraded coast).
29 • 2060 maintain coast with sea level rise.
30 • Change in depth of flooding (Planning Units 1 and 2 only) for:
31 ◦ 2010 base vs. 2060 no action.
32 ◦ 2060 no action vs. maintain coast.

33
34 In Planning Units 1 and 2, a comparison of basic alternative performance (changes in
35 water surface elevations and depth of flooding) of primary structural alternatives is also
36 presented through a series of maps (e.g., comparison of barrier plan in Planning Unit 1 to
37 high level plan; comparison of GIWW barrier in Planning Unit 2 to ridge alternative).

38
39 In addition, each alternative is represented by a set of two maps and two tables as
40 follows:

- 41 • **Metric Values Table**, which contains results for each of metrics across four
42 future scenarios, provides a “thumbnail sketch” of each alternative’s
43 performance.
44 • **Alternative Map**, which is an aerial photograph providing the geographic
45 location of features included in the alternative, e.g. levee alignments,
46 diversions, v-zones, etc.
47 • **Water Surface Elevation Table** showing the alternative’s performance in
48 reducing water surface elevations.
49 • **Planning Subunit Key Map** corresponding with the water surface elevation
50 table described above. This map also shows levee heights.

51 **Metric Values Table**

52 The metrics values are presented for the 50-year period of analysis. This required a
53 statistical analysis of the range of storm surge events that could affect the coast over the
54 period of analysis. This range of storms was applied equally to each alternative.

55
56 The metric evaluations are also compared to four scenarios – two conditions of relative
57 sea level rise and two conditions of population growth and development – again over the
58 period of analysis. Each combination of relative sea level rise and population growth and
59 development is broken down into three sub-comparisons (low, mean, high), which

60 compare the metrics at three probabilistic predicted water levels from the array of storm
61 surges.
62
63 In the lower left corner of the page, the Metric Values Table also provides the anticipated
64 time to construct the alternative along with the amount of acres, both direct and indirect,
65 that would be impacted by construction. The wetlands associated with the alternative are
66 measured for spatial integrity.
67
68 Other metric results are found on the lower center of the presentation and address the
69 coastal and structural components of the alternative under two combined scenarios. The
70 values provided show 1) the amount of wetlands that would be created by the end of the
71 period of analysis and the present value cost to create the wetlands and 2) a separate
72 present value cost to construct the structural features of the alternative.
73
74 The bottom right-hand corner of the presentation provides the nonstructural component
75 costs by scenario combination in present value.

76 **Planning Subunit Key Map and Water Surface Elevation Table**

77 The Planning Subunit Key Map provides the location and designators for the subunits
78 within a planning unit. This map is the “key” to the final table of the set that provides
79 changes to water surfaces on a sub-unit basis.

80
81 The two rows at the bottom of the Water Surface Elevation Table provide the basic
82 assumptions that relate to the tabular water surface change results. The confidence level
83 is a statistically derived probability of the surge elevation scenario. The second parameter
84 is the relative sea level rate of rise assumed and used in the calculations. The levee design
85 and overtopping boxes capture the friction conditions used in the surge generating model.
86
87 Each water surface change table compares the change of water surface against the no
88 flood or normal every day situation against the elevation of water within a subunit as a
89 result of the 100-, 400-, and 1000-year surge event. The columns are paired to show the
90 difference in change for the with- and without-project condition. The six columns on the
91 left present the water surface changes for 2010 and the six on the right show the water
92 surface changes that would occur in 2060. The two time conditions reflect wetland
93 development and relative sea level rise.

94 **Table of Contents by Planning Units**

95 The following tables present the order of maps and tables organized in separate
96 documents by planning unit.
97

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